

Title (en)

Swivel snap hook of synthetic resin and method of manufacturing the same.

Title (de)

Kunstharz-Drehgelenk-Karabinerhaken und sein Herstellungsverfahren.

Title (fr)

Mousqueton à joint tournant en résine synthétique et procédé pour sa fabrication.

Publication

EP 0159614 A2 19851030 (EN)

Application

EP 85104276 A 19850409

Priority

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Abstract (en)

A swivel snap hook molded of synthetic resin comprising only two pieces, i.e. an eye member (1) and a hook member (2), which are connected to each other for pivotal movements. One of the eye and hook members (1), (2) has an integral bearing portion divided into a pair of opposed bearing halves (10), (10) by a space (11), the two bearing halves (10), (10) having a pair of aligned through-holes (12), (12) communicating with the space (11). The other member has an integral arm portion (13) extending into the space (11) and terminating in an enlarged end (14) which is loosely received in the through-holes (12), (12) in the bearing halves (11), (11) across the space (11) for rocking movements. In production, the eye and hook members (1), (2) are molded simultaneously molded in only one step of molding operation in coupled state.

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Cited by

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